



Loudoun County

VIRGINIA

WHERE TRADITION MEETS INNOVATION

Data Collection and Signal Warrant Analysis for Development Applications

Board of Supervisors 2021 Transportation Summit
June 29, 2021

Background

January 17, 2019 – Board of Supervisors Business Meeting

- Item 13d Finance/Government Operation and Economic Development Committee Report (FGOEDC): Response to BMI – County Performed Traffic Studies
 - FGOEDC recommended BOS select Transition Option 2 (T2)

Background

Transition Option 2 (Legislative Applications)

- Traffic Data Collection Program managed by County using consulting contracts.
- Preparation and management of Warrant Studies by County using consulting contracts.
- Hire a Senior Traffic Engineer FTE to manage the program and tasks completed under County consulting contracts.

Update - Staffing

Senior Traffic Engineer

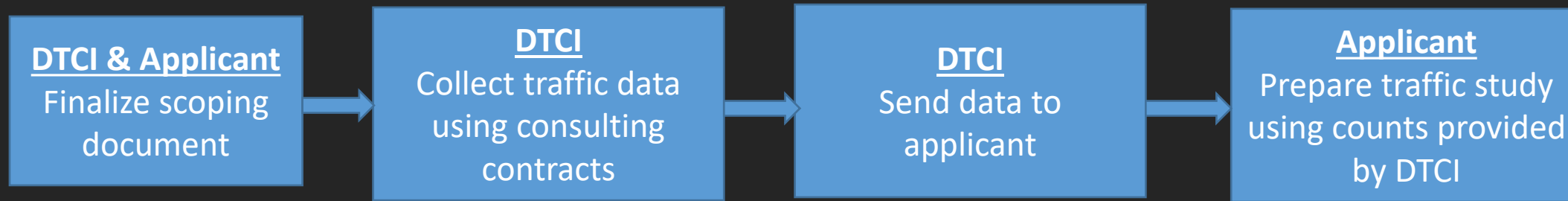
- Hired on February 6, 2020.
- Responsible for managing and overseeing the traffic impact studies program.
- Responsible for managing the traffic data collection program.
- Responsible for the preparation and management of warrant studies.

Update – Traffic Data Collection Program

- County Process
- Consulting Contracts
- Fee Offset
- Regulatory Document Revisions
- Development Community Outreach
- Software Procurement

Update – Traffic Data Collection Program

- County Process



Time needed for staff to order counts and provide to the applicant

- Up to six (6) weeks with no data discrepancy
- Up to eight (8) weeks with data discrepancy

Update – Traffic Data Collection Program

- Consulting Contracts
 - Quality Counts, LLC
 - National Data & Surveying Services, Inc
- Fee Offset
 - Data collection fee would be recovered from the applicant through new legislative application fees
 - Fixed unit price fee for each data collection task
 - Zoning Ordinance will be required to be amended to append the data collection fee. The ZOAM amendment process may take 6-10 months.

Update – Traffic Data Collection Program

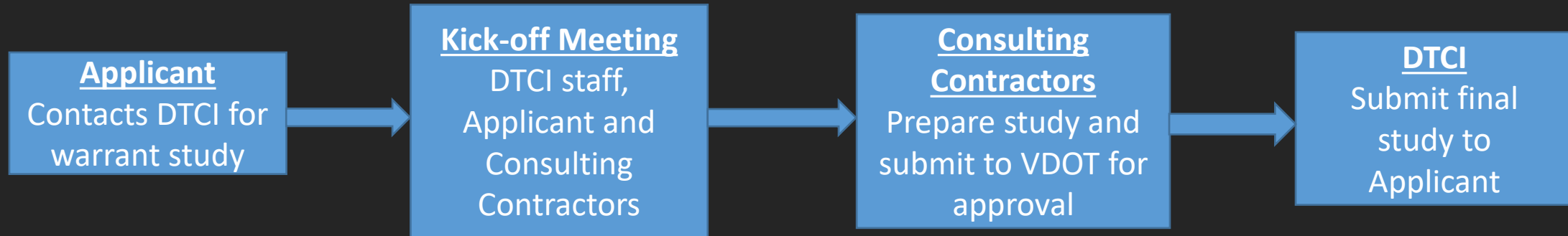
- Regulatory Document Revisions
 - Facilities Standards Manual (FSM) Section 4.200(B) will be required to be amended to incorporate the new traffic data collection program
 - The amendment process may take up to six (6) months
- Development Community Outreach
 - Staff reached out to the development community (BDAG, NAIOP) to provide status update
- Software Procurement
 - UrbanLogiq – Cloud-based traffic data management platform (Procured in 2020)

Update – Traffic Warrant Study Analysis Program

- County Process
- Consulting Contracts
- Fee Offset
- Development Community Outreach
- Software Procurement

Update – Traffic Warrant Studies Analysis Program

- County Process



- Total time from start to finish is approximately 36 weeks

- Consulting Contracts

- Kimley Horn
- Gorove Slade
- VHB

Update – Traffic Warrant Studies Analysis Program

- Fee Offset
 - The cost to prepare the warrant study using consulting contracts would be recovered from the applicant through new legislative application fees
 - Fixed unit price fee for each warrant study.
 - Zoning Ordinance will be required to be amended to append the data collection fee. The ZOAM amendment process may take 6-10 months.

Update – Traffic Warrant Studies Analysis Program

- Development Community Outreach
 - Staff reached out to the development community (BDAG, NAIOP) to provide status update
- Software Procurement
 - Synchro, SIDRA and Crash Magic (Procured in 2020)

Issues with New Program

- Traffic Data Collection Program
 - Traffic Data Collection Timeline – may take longer than the current process
 - Coordination with Applicant – Increase in development density may lead to submittal delays
 - Fee Offset – Applicant may back out from the project and refuse to pay the fee
- Traffic Warrant Study Analysis Program
 - Warrant Study Timeline- May take longer than the current process
 - Traffic Analysis Conflict – Applicant may disagree with the recommendations

Fiscal Impact

- Fiscal impact – The process change related to traffic data collection and warrant analyses is anticipated to have an annual fiscal impact of \$2.3 million:
 - \$1.35 million for data collection
 - \$150,000 for staff support
 - \$800,000 for warrant analyses
- These operational costs would be recovered by new legislative application fees paid by the Applicant.

Next Steps

- Complete the FSM amendment process
- Complete the legislative fee amendment process
- Continue to gather feedback from development community on process change